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Towards the application of alginate cell microencapsulation technologies to treat brain tumors

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Stellingen

behorende tot het proefschrift

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verdedigd door Swapnil Vilas Bhujbal op---

1. The international scientific community is so much focused on success of encapsulation systems in humans that they have forgotten to study the requirements for success.
2. Variations in encapsulation procedures have a large and underestimated impact on mechanical stability and biocompatibility of capsules, and are an essential factor in the success or failure of encapsulated cellular grafts.
3. The exact mechanical stability required for application of encapsulation systems in humans is still unknown (this thesis).
4. Mechanical stability of alginate gel networks influences the porosity and the surface roughness of the capsules, as well as the viability of encapsulated cells (this thesis).
5. Multilayer cell encapsulation overcomes issues with conventional encapsulation systems such as low mechanical stability and protrusion of cells and has therefore advantages for clinical application (this thesis).
6. Bringing cellular based therapy closer to the tumor will only be successful when we produce vehicles that can withstand the pressure of the brain.
7. Cell encapsulation technology is not only science but also a great art in science.
8. The PhD training does teach more about life than about research.
9. Success is when you convert your dreams into reality.
10. Being direct is not being rude.

Swapnil Vilas Bhujbal

11th February 2015